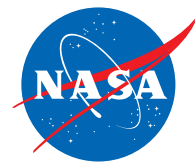


PRIDE
MONTH

THE INNOVATION CATALYST



JUNE 2023

IN THIS ISSUE:

- VP HARRIS AND SOUTH KOREAN PRESIDENT YOON VISIT GODDARD
- WHAT IS "INNOVATOR HOUR?"
- GET TO KNOW T2X
- COFFEE BREAK
- GETTING TO KNOW YOU

JUNETEENTH

JUNE 19 CELEBRATE
FREEDOM DAY

»»» UPCOMING EVENTS:



- INNOVATOR HOUR
TUESDAY, JUNE 13, 2023
1:00 - 2:00 P.M.
- COFFEE BREAK
Feat. SPO's Darryl Mitchell on Royalties
DATE & TIME: TBD

TECH TRANSFER TIP

with Administrative Specialist
Scott Leonardi:

Did you know that every month the Strategic Partnerships Office (SPO) and Goddard's Office of General Counsel (OGC) get together and have a New Technology Assessment (NTA) meeting to discuss and assess your newly submitted technologies?





President Yoon Suk Yeol of the Republic of Korea shakes hands with Vice President Kamala Harris after delivering remarks during a tour of NASA's Goddard Space Flight Center, Tuesday, April 25, 2023, in Greenbelt, Md. Photo Credit: (NASA/Aubrey Gemignani)

VP Harris and South Korean President Yoon Visit Goddard

Goddard was the center of attention during Republic of Korea President Yoon Suk Yeol's visit to the United States. On April 25, Yoon was treated to a tour of Goddard facilities with Vice President Kamala Harris. The tour, which took place on the first leg of Yoon's six-day visit, was accompanied by NASA Deputy Administrator Pam Melroy and Goddard Center Director Dr. Makenzie Lystrup. They were joined by Korean Minister of Science Lee Jong-ho and an assembly of Korean American scientists.

During their joint opening remarks, Harris and Yoon talked about the scope of the global climate crisis and their recent satellite missions to combat it. "The climate crisis poses an existential threat to our world," Harris said. "And to meet this threat, we must partner together to use satellite technology to monitor the impacts of that crisis on Earth. As one example, together our nations have built and placed satellites in orbit that can track air pollution in North America and Asia."

Two of those satellites include NASA's Tropospheric Emissions: Monitoring of Pollution (TEMPO) mission, which launched on April 7, and the Republic of Korea's Geostationary Environment Monitoring Spectrometer (GEMS), which launched

in 2020. Both satellites are designed to measure pollution and air quality across the United States and Northern Hemisphere.

Dignitaries from the two countries discussed the mutual need to address climate change and vowed further co-operation in space. Highlighting the tour, Melroy and Lee signed an agreement of intent between the two nations to commit additional resources and continued cooperation in the pursuance of climate science research.

“The United States and the Republic of Korea have a long-standing partnership across our shared interests — including science and technology at the Moon, Earth science, aeronautics research, and more,” said Melroy. “Our growing cooperation is proving that the future of space is collaborative and will strengthen our scientific discovery in space and on Earth for decades to come.”



Vice President Kamala Harris, right, speaks with NASA Deputy Administrator Pam Melroy, left, MSIT Minister Jong-Ho Lee, Dr. Makenzie Lystrup, Director of NASA's Goddard Space Flight Center, and NASA Astronaut Jonny Kim prior to the arrival of President Yoon Suk Yeol of the Republic of Korea, Tuesday, April 25, 2023, during a tour of NASA's Goddard Space Flight Center in Greenbelt, Md. Photo Credit: (NASA/Joel Kowsky)

“We were honored to demonstrate today how Goddard continues to make groundbreaking discoveries in Earth and space science, as well as how our other work supports NASA's mission for the benefit of humanity,” added Lystrup.

Harris and Yoon were also able to see assembly efforts currently underway for NASA's Nancy Grace Roman Space Telescope, which is designed to hunt for exoplanets. Roman will also study dark matter and dark energy and bring enhancements to the field of infrared astrophysics. It is currently expected to launch in 2027.

In his remarks, Yoon shared his vision for transforming South Korea into “one of the world's top five leaders in space technology,” with plans to reach the Moon for “resource extraction” by 2032 and land astronauts on Mars by 2045. “I've always believed that mankind's future lies in space,” said Yoon.

Harris had previously visited Goddard on November 5, 2021. During her earlier visit, NASA Administrator Bill Nelson unveiled the first images from Landsat 9, a joint mission of NASA and the U.S. Geological Survey (USGS), which launched in late September 2021. The tour gave the vice president a firsthand look at how NASA studies climate change.



NASA Deputy Administrator Pam Melroy, left, and MSIT Minister Jong-Ho Lee sign a Joint Statement of Intent to advance cooperation in exploration and science between NASA and the Ministry of Science and ICT of the Republic of Korea, Tuesday, April 25, 2023, at NASA's Goddard Space Flight Center in Greenbelt, Md. Photo Credit: (NASA/Joel Kowsky)



What is “Innovator Hour?”

The agency introduced NASA Procedural Requirements (NPR) 7500.2 - NASA Technology Transfer Requirements in 2014 to comply with the requirements of the Bayh-Dole Act, the Federal Technology Transfer Act, and the Small Business Research and Development Enhancement Act. This NPR calls for the disclosure of inventions and discoveries that NASA engineers and scientists make in performing their work for the agency. NASA engineers and scientists report their innovations using the New Technology Report (NTR).

As part of its responsibility to support the agency-wide Technology Transfer Program (commonly known as “T2”), the Goddard Strategic Partnerships Office (SPO) is charged with gathering and assessing NTRs for future commercialization. And this is where Innovator Hour comes in.

Goddard employees can meet one-on-one with a SPO Technology Manager during monthly Innovator Hour events, which are designed to help Goddard engineers and scientists better grasp the different facets of the NASA T2 Program and/or SPO-specific T2 efforts. SPO offers Innovator Hour for Goddard staff to speak with SPO Technology Managers, much like professors at colleges who maintain office hours for students to drop-in or arrange one-on-one sessions.

Goddard engineers and scientists can get just-in-time training for submitting NTRs during these one-on-one consultations, as well as more information about the NTR submission process, available awards and recognitions (i.e., IDEA Awards, Master Innovator Program, James Kerley Award, royalty, etc.), the patent application and award process, or a general overview of the T2 Program. If you’d like sign up for the upcoming Innovator Hour, see registration information at the end of this issue of the Innovation Catalyst.

A vertical poster for 'Innovator Hour' with a blue and green background featuring a circuit board pattern. The text is white and yellow. It includes the title 'INNOVATOR HOUR', a list of topics to discuss, the date and time of the next session, available time slots, and instructions on how to sign up.

THE STRATEGIC PARTNERSHIPS OFFICE (SPO) PRESENTS

INNOVATOR HOUR

Have questions about protecting your innovation?
Want to learn more about how to submit New Technology Reports?
Have general questions about technology transfer and partnerships?
Sign up for a one-on-one 20-minute timeslot with a SPO representative.
Meetings will be held virtually via Microsoft Teams.

NEXT SESSION: **TUESDAY, JUNE 13, 2023**
1:00-2:00 P.M.

Available Timeslots
1:00-1:20 P.M.
1:20-1:40 P.M.
1:40-2:00 P.M.

How to Sign Up
To register for the upcoming session and secure your timeslot,
[complete the registration form.](#)

Get to Know T2X

NASA's TECH TRANSFER EXPANSION (T2X) PROGRAM: ACCELERATING NASA-DEVELOPED TECHNOLOGY

NASA Technology Transfer Expansion (T2X) accelerates the commercialization of NASA-developed technology and new venture creation through strategic partnerships, entrepreneurship activities, and engagement with academia. T2X builds on the mission of NASA Technology Transfer — to ensure that innovations developed for exploration and discovery are broadly available to the public. With an emphasis on entrepreneurial innovation and pipeline creation, T2X invests in the economy of the future.

"I like to think of it as a grassroots effort," said Samantha Kilgore, Goddard's T2X lead. "We're embedding in communities to meet people where they are and establish relationships with economic development organizations, incubators, and universities. This way — we can engage entrepreneurially minded people and introduce them to commercialization as an avenue to entrepreneurship."

The agency-wide program contains representatives from NASA's field centers and headquarters. Each focus on a cluster of regions. Kilgore says her focus areas include Delaware's Wilmington area, New York, and Vermont, each strategically chosen for existing support and resources for entrepreneurs.

"We have several exciting ongoing and upcoming activities in our focus areas," said Kilgore. We are fast approaching the kick-off of a Climate-Focused Startup Studio in Wilmington Delaware, hosted by FedTech. The NASA FedTech Startup Studio matches entrepreneurs with agency patents available for licensing and groups them into teams for entrepreneurial training to develop new products and services. The Startup Studio will guide participants through the challenges of starting a business.

Technology selection and entrepreneur recruiting are underway for the series to kick off in June. Participants will work in teams for 16 weeks, leading up to a showcase event on October 4, 2023, at The Innovation Space, Wilmington, Delaware, where they will pitch their final business concepts to judges selected by both T2X and FedTech.

In New York, there is an ongoing prototype development activity between NASA and the New York Institute of Technology (NYIT) of Engineering and Computing Sciences' Entrepreneurship and Technology Innovation Center (ETIC). ETIC student employees develop novel technology prototypes for patented NASA technologies. Student employees also create marketing materials for NASA's commercialization efforts. Kilgore says the goal is to provide prototype demonstration resources to licensing managers and contribute to the overall commercialization successes of the agency. This activity is in its second year, and several prototypes have been delivered to centers.

In Vermont, Kilgore says she's excited about a partnership with Black River Innovation Campus (BRIC) in Springfield. BRIC focuses on creating startups within technology, advanced manufacturing, and advanced computing. NASA Goddard has established a formalized partnership with BRIC to provide resources for commercialization opportunities using NASA-developed technology. Last year, BRIC received a \$3 million award to scale their program to other parts of the country.

The T2X team structure, representatives from many of the agencies' field centers working together, helps bolster the one NASA mentality. "We can accomplish more when we work together and collaborate strategically, at the end of the day, we are one agency with a shared mission." Said Kilgore.

To learn more, please visit: technology.nasa.gov/t2x

THE COFFEE BREAK



Photo Credit: Samantha Kilgore

Take a Coffee Break with SPO's Darryl Mitchell on Royalties

Confirmed data and time and other logistical details TBD

Are you developing Goddard technologies? Do you have innovative ideas? If you answered "yes" to either question, then this 15-minute coffee break with SPO's Office Chief Darryl Mitchell featuring royalties is for you. Bring your questions, too!

A share of the royalties is one of several benefits to Goddard inventors who work with SPO's Technology Transfer Program to license their inventions. In this coffee break, you will learn some basics of licensing at NASA. Mitchell will then explain royalty sharing at the agency and what you can expect as a NASA inventor.

"NASA has one of the more generous royalty sharing programs across the federal government. When we're successful at technology licensing and commercialization, there's some substantial money that could come your way as a NASA inventor." -Darryl Mitchell



Photo Credit: Samantha Kilgore

Getting to Know You

MEET THE STAFF IN GODDARD'S STRATEGIC PARTNERSHIPS OFFICE



Hossin Abdeldayem,
Senior Technology Manager

As a member of a four-person team of technology managers in the Strategic Partnerships Office (SPO), Abdeldayem evaluates novel intellectual ideas that are submitted to the SPO office in the form of New Technology Reports (NTRs) by Goddard scientists and engineers for their commercial potential. While he interacts with innovators in codes across Goddard, his specialty is lasers and optics.

Bio

Abdeldayem worked for about a year as a post-doctoral researcher at Alabama A&M University, where he brought in \$1.3 million in research funding from NASA to the physics department. He won the Universities Space Research Association Award and joined NASA's Marshall Space Flight Center as a laser scientist for 10 years. In 2001, he moved to Goddard, working with the team that builds lasers for satellite missions before joining the SPO team as a senior technology manager. He continues to study quantum field theory and gravitational fields, recently authoring a novel complex field theory and publishing two technical papers.

What would you like Goddard's innovators to know about SPO?

Goddard innovators should know that it is a privilege to submit an NTR to our office, which adds to their work performance. NASA as a government agency is obligated by the US Congress to disseminate its technologies to academia and private industries. NASA technologies contribute great products to the public in all fields of life. They contribute to the flourishing of the country's economy and generate well-paid jobs. NASA Headquarters and Goddard's SPO seek the help of Goddard scientists and engineers to fulfill NASA's obligation towards the country. In return, NASA (NPD 2092.1B) awards up to \$150,000 per fiscal year of royalties for licensed technologies to the innovator, in addition to offering several other prestigious financial awards. I urge our innovator community to work closely with SPO to support the success of their innovations by recommending companies to contact and market their technologies.

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